

DELPHI SERIES



FEATURES

- ♦ High efficiency: 86% @ 3.3V/4.5A
- ♦ Standard footprint: 2.0" × 1.0"
- ♦ Industry standard pin out
- ♦ Low profile
 - Open Frame: 9.1mm (0.36")
 - Encapsulated: 10.7mm (0.42")
- ♦ Fixed frequency operation
- ♦ Input UVLO, Output OCP, OVP
- ♦ No minimum load required
- ♦ 2:1 input voltage range
- ♦ ISO 9001, TL 9000, ISO 14001, QS9000, OHSAS18001 certified manufacturing facility
- ♦ UL/cUL 60950 (US & Canada) Recognized and TUV (EN60950) Certified
- ♦ CE mark meets 73/23/EEC and 93/68/EEC directives

Delphi Series S48SR, 15W 2"x1" Family DC/DC Power Modules: 48V in, 4.5A out

The Delphi Series S48SR, printed circuit board mounted, 48V input, single output, isolated DC/DC converters are the latest offering from one of the world's largest power supply manufacturers — Delta Electronics, Inc. This product family provides up to 15 watts of power or up to 4.5A of output current (for 3.3V and below) in an industry standard footprint. With creative design technology and optimization of component placement, these converters possess outstanding electrical and thermal performance, as well as extremely high reliability under highly stressful operating conditions. All models are protected from abnormal input/output voltage and current conditions. An encapsulated version is available for the most robust performance in harsh environments.

OPTIONS

- ♦ Shorter pin length

APPLICATIONS

- ♦ Telecom/DataCom
- ♦ Wireless Networks
- ♦ Optical Network Equipment
- ♦ Server and Data Storage
- ♦ Industrial/Test Equipment

SPECIFICATIONS

GENERAL SPECIFICATIONS			OUTPUT SPECIFICATIONS		
Input Voltage		36~75V	Voltage Accuracy	Typical	±1%
Switching Frequency	Typical (3.3V)	290KHz	Line Regulation	Typical	±0.1%
Isolation Voltage	In/Out	1500V	Load Regulation	0%~100%	±0.2%
Isolation	Typical	500pF	Ripple & Noise	20MHz BW Typical	50 mV
Isolation Resistance	Minimum	100MΩ	Current Limits	Typical	150%
MTBF	Bellcore	3M hours	Over Voltage	Typical	125%
Size	Encapsulated	2.00"×1.00"×0.42"	Voltage Trim		+10%, -10%
	Open Frame	1.93"×0.93"×0.36"			

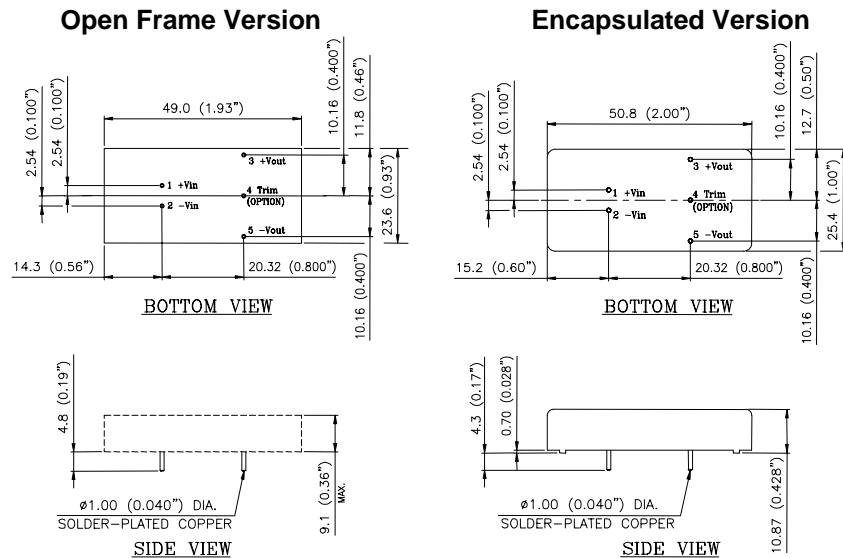
PART NUMBERING SYSTEM

S	48	S	R	3R3	04	E	R	F	A
Form Factor	Input Voltage	Number of Outputs	Product Series	Output Voltage	Output Current	ON/OFF Logic	Pin Length		Option Code
S- Small Power	48V	S- Single	R- Thru-hole	1R8- 1.8V 2R5- 2.5V 3R3- 3.3V 050- 5.0V 120- 12V	01- 1.25A 02- 2.0A 03- 3.0A 04- 4.5A 05- 5.0A	E- No ON/OFF Control Function	R- 0.170" N- 0.145" K- 0.110"	F- RoHS 6/6 (Lead Free)	A- Encapsulated & Trim B- Encapsulated & No Trim C- Open Frame & Trim D- Open Frame & No Trim

MODEL LIST

MODEL NAME	INPUT	OUTPUT	EFF @ 100% LOAD
S48SR1R805ERFA	36V~75V	0.5A	80.0%
S48SR2R504ERFA	36V~75V	0.5A	83.0%
S48SR3R303ERFA	36V~75V	0.5A	84.5%
S48SR3R304ERFA	36V~75V	0.6A	86.0%
S48SR05002ERFA	36V~75V	0.5A	85.0%
S48SR05003ERFA	36V~75V	0.6A	86.5%
S48SR12001ERFA	36V~75V	0.6A	86.5%

MECHANICAL DRAWING



NOTES:
DIMENSIONS ARE IN MILLIMETERS AND (INCHES)
TOLERANCES: X.Xmm±0.5mm(X.XX in.±0.02 in.)
X.XXmm±0.25mm(X.XXX in.±0.010 in.)

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